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			PHAM, TUAN	
DALLAS, TX 75265			ART UNIT	PAPER NUMBER
			2618	
			NOTIFICATION DATE	DELIVERY MODE
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	09/942,192	DABAK ET AL.
Office Action Summary	Examiner	Art Unit
	TUAN A. PHAM	2618
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory or Failure to reply within the set or extended period for reply will, by stature Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tired will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>02/4</u> This action is FINAL . 2b) ☐ This action is FINAL . Since this application is in condition for allowated closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) 1-4 and 14 is/are allowed. 6) Claim(s) 5-13, and 15-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.	
9)☐ The specification is objected to by the Examin	er.	
10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	e drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see Applicant's remark, filed on 02/04/2008, with respect to the rejection(s) of claim(s) 1-20 under 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. <u>Claims 5-9, and 15-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gerten et al. (U.S. Patent No.: 6,760,319, hereinafter, "Gerten") in view of Shoobridge et al. (U.S. Patent No.: 6,326,926, hereinafter, "Shoobridge") are rejected under 35 U.S.C. 103(a) as being unpatentable over Gerten et al. (U.S. Patent No.: 6,760,319, hereinafter, "Gerten")</u>

and further in view of Karaoguz et al. (US Patent No.: 7,114,010, hereinafter, "Karaoguz").

Regarding claim 5, Gerten teaches a scatternet (see figure 1, col.3, ln.7-10), comprising.

a first piconet having a first communication device operating therein (see figure 1, piconet 14, mobile device 22);

a second piconet having a second communication device operating therein (see figure 1, piconet 12, master mobile device 22), and

a third communication device (see figure 1, master/slave 22), enable to communicate in the first piconet and the second piconet (see figure 1, master/slave 22 communicate with piconet 12, piconet 14), communicating to the first communication device using a Bluetooth mode (see figure 1, master/slave 22 communicate with piconet 12 via Bluetooth).

It should be noticed that Gerten fails to teach the third device is communicating to the second communication device using a second mode of transmission. However, Shoobridge teaches such features (see figure 3, figure 5, mobile 100 communicate with access point 24 b via IEEE 802.11).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Shoobridge into view of Gerten in order to provide the multi modes system without interference as suggested by Shoobridge at col.2, ln.23-30.

Gerten and Shoobridge, in combination, fails to teach the synchronization involves switching back and forth between the Bluetooth mode and the second mode. However, Karaoguz teaches the synchronization involves switching back and forth between the Bluetooth mode and the second mode (see col.2, ln.39-56).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Karaoguz into view of Gerten and Shoobridge in order support dual mode.

Regarding claim 6, Gerten further teaches the third device comprises a slave unit (see figure 1, master/slave device 22).

Regarding claim 7, Gerten further teaches the first and second device comprises master unit (see figure 1, master unit 22 of piconet 12).

Regarding claim 8, Gerten further teaches the third device comprises a device which acts as a master unit when communicating with the first communication device and acts as a slave unit when communicating with the second communication device (see figure 1, mater/slave device 22).

Regarding claim 9, Shoobridge further teaches synchronization between the Bluetooth mode and the second mode is maintained in the third communication device at the physical layer of the Bluetooth mode and the second mode (see figure 3, figure 5, mobile 100, first AP 54b, second AP24b, it is clearly seen that the mobile 100 for receive the signal at antenna that include the physical layer).

Regarding claim 15, Gerten further teaches the third communication device is a slave unit (see figure 1, master/slave unit 22).

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Regarding claim 16, Gerten further teaches the first communication device is a master unit (see figure 1, master unit 24 in piconet 14).

Regarding claim 17, Gerten further teaches the second communication device is a master unit (see figure 1, master/slave unit 22 of piconet 12).

Regarding claim 18, Gerten further teaches the third communication device is a slave unit while communicating in the first piconet and is a master unit while communicating in the second piconet (see figure 1, master/slave unit 22, second piconet 12, first piconet 14).

Regarding claim 19, Gerten further teaches the first communication device is a master (see figure 1, master unit 24 in piconet 14).

Regarding claim 20, Gerten further teaches the second communication device is a slave unit (see figure 1, mobile unit 22).

4. <u>Claims 10-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gerten et al. (U.S. Patent No.: 6,760,319, hereinafter, "Gerten") in view of Karaoguz et al. (US Patent No.: 7,114,010, hereinafter, "Karaoguz").</u>

Regarding claim 10, Gerten teaches a method for communicating between a first communication device, enable to communicate in a first piconet and a second piconet, comprising the steps of:

placing the first communication in the Bluetooth mode in order to communicate with a communication device from amongst the plurality of communication devices in

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the first piconet (see figure 1, master/slave 22 communicate with plurality mobiles 22 in the piconet 14).

It should be noticed that Gerten fails to teach a plurality of other communication devices using multiple modes including a Bluetooth mode of operation, and placing the first communication device in a second mode in order to communicate with a communication device from amongst the plurality of communication devices in the second piconet, the second mode being the mode used by the plurality of communication devices in the second piconet. However, Karaoguz teaches a plurality of other communication devices using multiple modes including a Bluetooth mode of operation (see figure 1, plurality of multi-mode devices 30, 32, col.7, ln.22-27), and placing the first communication device in a second mode in order to communicate with a communication device from amongst the plurality of communication devices in the second piconet (see figure 1, area 22, multi-mode device 30 communicate with wireless device 28 by second mode homeRF, col.4, In.3-38, it is clearly seen that the PAN 22 should be included plurality of wireless devices 28, col.4, ln.41-44), the second mode being the mode used by the plurality of communication devices in the second piconet (see figure 1, area 22, it is clearly seen that multi-mode device 30 communicate with plurality of wireless device 28 by second mode homeRF, the PAN 22 should be included plurality of wireless devices 28, col.4, ln.3-38, col.4, ln.41-44).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Karaoguz into view of Gerten in order to provide a dual mode communication device.

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Regarding claim 11, Karaoguz further teaches first communication device in step (b) uses a "within mode synchronous" technique while in the second mode whereby the packets used to communicate with the communication device from amongst the plurality are only synchronous while the first communication device is in the second mode (see figures 7-9, col.7, ln.28-65).

Regarding claim 12, Karaoguz further teaches the first communication device uses packets to communicate with the communication devices in step (a) and (b) which are "across mode synchronous" (see figures 7-9, col.7, ln.28-65).

Regarding claim 13, Karaoguz further teaches the communication device that the first communication device communicates with in step (a) and (b) is the same communication device from amongst the plurality of communication devices (see figures 7-9, col.7, ln.28-65).

Allowable Subject Matter

5. Claims 1-4 and 14 are allowed.

Regarding claim 1, the applied references fails to disclose or render obvious each of said first and second communication devices is selectable as a master device that coordinates synchronization for communications in the Bluetooth mode and communications in the second mode, wherein each of said first and second communication devices is selectable as a slave device that adheres to the synchronization provided by the master device, in combination with other limitations, as specified in the independent claim 1, and further limitations of their respective dependent claims 2-4, and 14.

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Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan A. Pham whose telephone number is (571) 272-8097. The examiner can normally be reached on Monday through Friday, 8:30 AM-5:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Anderson can be reached on (571) 272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have question on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Technology 2600 Art Unit 2618 April 15, 2008 Examiner

/TUAN A PHAM/

Tuan Pham

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